

TECHNICAL DATA SHEET

**SMART
FIX**[®] **ULTRA
WPF**



INTRODUCING SMARTT FIX[®] ULTRA WPF, TILE ADHESIVE:

High Performance, Thixotropic, Extended Open Time
Waterproof Tile Adhesive. **CEMENT BASED**

Extend open time waterproof with improved adhesion for small to large tiles.

DESCRIPTION

- Cement based, with extended open time tile adhesive with improved adhesion for small to large sized (<30x60cm) walls & tiles and porcelain tiles. It is non-slip by its thixotropic feature. Ideal for tiling in wet areas.
- Excellent tiling on wall and floors,
- Resistant to outdoor conditions,
- Resistant to water and frost,
- Resistant to thermal shocks and moisture,
- Non-slip, excellent performance for wall tiling.

MATERIAL CONTENT

High quality cement, additives providing and improved Flexibility, adhesion, and water resistance.

- **Color:** Grey / white
- **Type:** Powder
- **Density:** 1,3 gr/cm³

APPLICATION PROPERTIES

- **Mixture Rate:** 4,0 - 7 liters water / 25 kg powder
- **Open Time:** 30 minutes
- **Pot Life:** 3 hours
- **Application Temperature:** +4°C - +35°C
- **Adjustment Time:** 30 minutes
- **Bed Thickness:** 2 - 10 mm
- **Coverage Area Under Tile:** minimum 90%
- **Set Time:** minimum 24 hours (for light pedestrian traffic)
- **Grouting Time:** minimum 24 hours
- **Final Set Time:** 28 days (23°C, 50% relative humidity)

TECHNICAL PROPERTIES

- **Tensile Strength**
 - **After 28 Days:** $\geq 1,0$ MPa (N/mm²)
 - **Aging With Heat:** $\geq 1,0$ MPa (N/mm²)
 - **Aging With Water:** $\geq 1,0$ MPa (N/mm²)
 - **Freeze - Thaw Cycle:** $\geq 1,0$ MPa (N/mm²)
 - **Extended Opening Time (30 mins.):** $> 1,0$ MPa (N/mm²)
- **Shear:** $\leq 0,5$ mm
- **Flexibility:** very good
- **Resistance To Alkalis:** good
- **Resistance To Thermal Shocks:** -30°C - +70°C

REFERENCE STANDARD

C2TE class

APPLICATION SURFACES

Suitable for use on cement-based screeds and plasters, and concrete substrates. For application on alternative surfaces please refer to the Special Conditions section.

SURFACE PREPARATION

The substrate should be clean and free from dust, dirt, grease, or any other contaminating barrier.

Subsequently hardened or polished surfaces and laitance (concrete etc.)

- Ensure that substrate is mature, sound, stable and smooth, and not too dry or wet.
- High porosity substrates (i.e., gypsum plasters) should be primed before fixing.
- The surfaces exposed to direct sunlight and have a surface temperature above +35 °C must be cooled by damping.

MIXING

- Gradually add 4-7 liters (20-28%) of clean water to 25 kg of powder and mix to a smooth and homogenous paste. It is recommended to use a low cycled electrical drill-mixer for mixing.
- The paste should be in a consistency such that it does not when handled with a trowel.
- The paste should rest for 5 minutes prior to application and should be applied after remixing

APPLICATION

- Apply the adhesive on the substrate (for tile sizes >33x33 cm, adhesive should be buttered onto the tile back as well) with a suitable notched trowel to achieve the required bed thickness.
- The tiles must be fixed within the open time of adhesive and pressed on with a twisting and sliding action to achieve good contact. The tile should be gently hammered with a rubber hammer in order to provide the stability of bonding and the adhesive to spread and fully cover the tile back. Lift an occasional tile after fixing to verify that the required contact is being achieved.
- Excess adhesive must be cleaned off from the tiles and joints with a damp cloth or sponge before it hardens.
- Grouting must be done at least 24 hours later after adhesive application.
- Application on hot surfaces and during sunny and/or windy weather is not recommended.

STORAGE AND SHELL LIFE

- When stored unopened in a cool, dry place at temperatures above 5°C, shelf life is 12 months from date of manufacture. Production date and charge number are displayed on the packaging.
- The products should not be stored in damped or submerged warehouses. At maximum 8 craft sacks should be overlaid for storage.
- When not used, opened packages should be closed tightly to avoid air contact.

HEALTH AND SAFETY

- Irritating eyes and skin due to cement content. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water.
- Wear suitable protective clothing, gloves, and eyes/face protection.
- The product should not be inhaled. Dust mask should be used if necessary.
- Keep the product out of the reach of children.

PRECAUTIONS

- If any roundish and lump or hard particles are observed in a newly opened bag, do not use the product.
- Do not add more water into the mixture once the mixture is specified on the technical legends on the product packaging or technical data sheets.
- Do not add more water into the mix after mix harden

PACKAGING SIZE:

Bag: 50 lbs. (22.7 kg)

FOR TECHNICAL SERVICES

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End of Technical Data Sheet